

Amendment to AZ A.G. Contract KR930515TRN
AZ ECS File: JPA 93-53
AZ TRACS: X930101X
NM Contract No.: D05780
NM Vendor No.: 5199213
Project: Materials Testing and
Inspection - Statewide

AMENDMENT #1

AMENDMENT TO
INTERGOVERNMENTAL AGREEMENT
BETWEEN
THE STATE OF ARIZONA
AND
THE STATE OF NEW MEXICO

WHEREAS, it has become necessary to increase the funds under the above referenced contract due to an increased volume of work than originally anticipated;

NOW THEREFORE, the parties mutually agree to increase the dollar amount available on the above referenced agreement from not to exceed ten thousand dollars (\$10,000) to not to exceed twenty thousand dollars (\$20,000). All other terms and conditions of Intergovernmental Agreement, AZ A.G. Contract No. KR930515TRN, NM CN D05780, shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the parties have executed this Amendment on the dates below specified.

STATE OF NEW MEXICO
State Highway and
Transportation
Department

STATE OF ARIZONA
Department of
Transportation

By: *L. J. Medrano*
LOUIS J. MEDRANO
Secretary

By: *Robert P. Mickelson*
ROBERT P. MICKELSON
Chief Deputy State Engineer

Date: 06/10/94

Date: 6/21/94

| |
|---|
| NO. <u>17590</u> #01 |
| FILED WITH SECRETARY OF STATE |
| Date Filed <u>07/07/94</u> |
| <u><i>Richard Mahoney</i></u> Secretary of State |
| By <u><i>Vicky Greenwald</i></u> |

AMENDMENT TO

AZ JPA 93-53
NM CN 05780

APPROVAL OF THE OFFICE OF GENERAL COUNSEL

I have reviewed the proposed amendment to the above referenced interagency agreement, between the ARIZONA DEPARTMENT OF TRANSPORTATION and the NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT and declare this proposed amendment to this agreement to be in proper form and within the powers and authority granted to the Department.

DATED this 8th day of June, 1994.

By: Devin P. Stetler for General Counsel



STATE OF ARIZONA

OFFICE OF THE ATTORNEY GENERAL

GRANT WOODS
ATTORNEY GENERAL

1275 WEST WASHINGTON, PHOENIX 85007-2926

MAIN PHONE : 542-5025
TELECOPIER : 542-4085

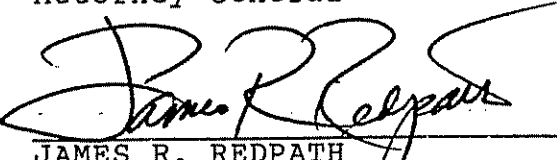
INTERGOVERNMENTAL AGREEMENT
DETERMINATION

A. G. Contract No. KR93-0515--TRN, an agreement between public agencies, has been reviewed pursuant to A.R.S. §11-952, as amended, by the undersigned Assistant Attorney General who has determined that it is in the proper form and is within the powers and authority granted to the State of Arizona.

No opinion is expressed as to the authority of the remaining parties, other than the State or its agencies, to enter into said agreement.

DATED this 1st day of July, 1994.

GRANT WOODS
Attorney General


JAMES R. REDPATH
Assistant Attorney General
Transportation Section

JRR:lsr
8365G

AZ A. G. Contract No. KR930515TRN
AZ ECS File: JPA 93-53
AZ TRACS: X930101X
NM Contract No.: D05780
NM Vendor No.: 5199213
Project: Materials Testing and
Inspection - Statewide

INTERGOVERNMENTAL AGREEMENT
BETWEEN
THE STATE OF ARIZONA
AND
THE STATE OF NEW MEXICO

THIS AGREEMENT is entered into 26 May, 1993,
pursuant to Arizona Revised Statutes, Sections 11-951 through
11-954, as amended, between the STATE OF ARIZONA, acting by and
through its DEPARTMENT OF TRANSPORTATION ("Arizona") and the
STATE OF NEW MEXICO, acting by and through its STATE HIGHWAY
AND TRANSPORTATION DEPARTMENT ("New Mexico").

I. RECITALS

1. Arizona is empowered by Arizona Revised Statutes
Section 28-108 and 28-114 to enter into this agreement and has
by resolution, a copy of which is attached hereto and made a
part hereof, resolved to enter into this agreement and has
delegated to the undersigned the authority to execute this
agreement on behalf of Arizona.

2. New Mexico is entering into this agreement under the
authority of New Mexico Statutes Annotated 1978, 13-1-98 and
67-3-28, and has authorized the undersigned to execute this
agreement on behalf of New Mexico.

3. New Mexico has requested Arizona to provide materials
testing and inspection services for New Mexico, on a cost
reimbursement basis, in a total amount not to exceed
\$10,000.00, at locations within Arizona where Arizona routinely
inspects and tests materials for it's own purposes. Such
testing costs reimbursed by New Mexico shall be in accordance
with "Materials Section Sample Analysis Rates" effective
February 1, 1993, which is attached hereto as Exhibit A and
made a part hereof.

THEREFORE, in consideration of the mutual agreements expressed
herein, it is agreed as follows:

NO. 17590
FILED WITH SECRETARY OF STATE
Date Filed 05/26/93
Richard Mahoney
Secretary of State
By Vincent J. MacKenzie

II SCOPE

1. Arizona will:

a. With it's own employees and laboratories, provide only those services requested by New Mexico. Provide New Mexico with written testing and inspection reports no later than 90 days after performance of such services, or within a reasonable time as mutually agreed.

b. Conduct such testing and inspection services in strict accordance with mutually agreeable predetermined instructions, as provided by New Mexico.

c. No more often than monthly, invoice New Mexico for the reasonable direct actual cost of services performed, with no profit or fee, in a total amount not to exceed \$10,000.00, in accordance with the rates outlined on Exhibit A.

2. New Mexico will:

a. Provide Arizona with written individual requests for testing and inspection services in sufficient detail to ensure testing and inspection goals may be appropriately accomplished.

b. Reimburse Arizona for services performed within thirty (30) days after receipt of monthly invoices, in a total amount not to exceed \$10,000.00.

III. MISCELLANEOUS PROVISIONS

1. This agreement shall remain in force and effect until 30 June 1995, unless sooner canceled by either party upon thirty (30) days written notice to the other party, or by other competent authority.

2. This agreement shall become effective only upon execution by the New Mexico State Highway and Transportation Department Secretary and filing with the Arizona Secretary of State as required by Arizona Revised Statutes 11-952.

3. This agreement may be cancelled in accordance with Arizona Revised Statutes Section 38-511 as regards conflicts of interest on behalf of Arizona state employees.

4. The provisions required by Arizona Revised Statutes Section 35-214 pertaining to audit are applicable to this contract.

5. In the event of any controversy which may arise out of this agreement, the parties hereto agree to abide by arbitration as is required by Arizona Revised Statutes Section 12-1518.

6. All notices or demands upon any party to this agreement shall be in writing and shall be delivered in person or sent by mail addressed as follows:

Arizona Department of Transportation
Joint Project Administration
205 South 17 Avenue, Mail Drop 616E
Phoenix, AZ 85007

New Mexico State Highway
and Transportation Department
Bridge Design Engineer
Box 1149
Santa Fe, NM 87504-1149

7. The parties hereto agree to abide by all applicable federal and state laws, rules and regulations relating to equal opportunity compliance.


8. As required by Arizona Revised Statutes 11-952, attached hereto and incorporated herein is the written determination of respective legal counsel that the parties are authorized under the laws of their respective states to enter into this agreement and that the agreement is in proper form.

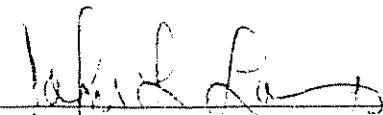
9. The undersigned signatories hereby warrant that they each are an official of the agency for which each has executed this contract, and that each has full and complete authority to enter into this contract on behalf of their respective States.

IN WITNESS WHEREOF, the parties have executed this agreement the day and year first above written.

STATE OF NEW MEXICO
State Highway & Transportation
Department

STATE OF ARIZONA
Department of Transportation

By 
LOUIS J. MEDRANO
Secretary

By 
ROBERT P. MICKELSON
Deputy State Engineer

By: -----

Approved by DFA ON:-----

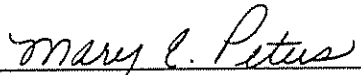
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JPA 93-53

RESOLUTION

BE IT RESOLVED on this 26th day of March 1993, that I, the undersigned LARRY S. BONINE, as Director of the Arizona Department of Transportation, have determined that it is in the best interests of the State of Arizona that the Department of Transportation, acting by and through the Highways Division, to enter into an agreement with State of New Mexico Highway and Transportation Department for the purpose of defining responsibilities for Arizona to provide materials testing services to New Mexico.

Therefore, authorization is hereby granted to draft said agreement which, upon completion, shall be submitted to the Deputy State Engineer for approval and execution.


for LARRY S. BONINE
Director

APPROVAL OF THE OFFICE OF GENERAL COUNSEL

I have reviewed the above referenced proposed interagency agreement, between the ARIZONA DEPARTMENT OF TRANSPORTATION and the NEW MEXICO DEPARTMENT OF TRANSPORTATION and declare this agreement to be in proper form and within the powers and authority granted to the Department.

DATED this 28th day of April, 1993.

By Cheryl D. Connor



STATE OF ARIZONA

OFFICE OF THE ATTORNEY GENERAL

GRANT WOODS
ATTORNEY GENERAL

1275 WEST WASHINGTON, PHOENIX 85007-2926

MAIN PHONE : 542-5025
TELECOPIER : 542-4085

INTERGOVERNMENTAL AGREEMENT
DETERMINATION

A. G. Contract No. KR93-0515-TRN, an agreement between public agencies, has been reviewed pursuant to A.R.S. §11-952, as amended, by the undersigned Assistant Attorney General who has determined that it is in the proper form and is within the powers and authority granted to the State of Arizona.

No opinion is expressed as to the authority of the remaining parties, other than the State or its agencies, to enter into said agreement.

DATED this 20th day of May, 1993.

GRANT WOODS
Attorney General

A handwritten signature in dark ink, reading "James R. Redpath", is written over a horizontal line.

JAMES R. REDPATH
Assistant Attorney General
Transportation Section

EXHIBIT "A"

MATERIALS SECTION SAMPLE ANALYSIS RATES

Effective February 1, 1993 an hourly rate of \$41.00 will be used to charge for services performed within the Department. The following gives the direct labor hours and the rate for each test. All rates have been adjusted to the nearest \$0.50. The rates are applicable to all ADOT personnel using Materials Section testing. All other agencies or companies are charged these rates plus a 50% markup to cover other Department costs.

ASPHALT

| Test Charge # | Rate @ \$41.00 | Test | Hours |
|---------------|----------------|--|-------|
| 201 | 15.50 | Absolute Viscosity | 0.378 |
| 202 | 15.50 | Anti-Stripping Agent in Asphalt Cement (Sand Method) | 0.378 |
| 203 | 9.00 | Asphalt Emulsion Particle Charge | 0.214 |
| 204 | 53.50 | Cement Mixing Test | 1.300 |
| 205 | 51.00 | Demulsibility | 1.246 |
| 206 | 39.00 | Distillate (Distillation of Liquid Asphalt) | 0.954 |
| 207 | 44.00 | Ductility Test | 1.077 |
| 208 | 51.00 | Flash Point | 1.240 |
| 209 | 31.50 | Kinematic Viscosity | 0.766 |
| 210 | 20.00 | Loss by Rolling Thin Film Oven | 0.487 |
| 211 | 82.00 | Microviscosity Test | 2.003 |
| 212 | 40.00 | Penetration Test | 0.975 |
| 213 | 13.50 | Rapid Set Cationics - Uncoated Particles | 0.325 |
| 214 | 42.00 | Residue by Evaporation | 1.028 |
| 215 | 48.00 | Residue from Evaporation (AASHTO Method) | 1.171 |
| 216 | 33.50 | Residue from Vacuum Recovery | 0.812 |
| 217 | 37.50 | Saybolt-Furol Viscosity | 0.918 |
| 218 | 40.00 | Settlement | 0.975 |
| 219 | 33.50 | Sieve Test | 0.812 |
| 220 | 34.50 | Solubility | 0.843 |
| 221 | 26.50 | Specific Gravity of Asphalt | 0.650 |
| 222 | 16.50 | Spot Test | 0.403 |
| 223 | 44.50 | Stripping Test - Accelerated Method | 1.083 |
| 224 | 13.50 | Write-up | 0.325 |
| 225 | 41.00 | Rotary Vacuum Recovery | 1.000 |
| 226 | 13.50 | Ash Correction | 0.333 |
| 227 | 58.00 | Schweyer Viscosity | 1.417 |
| 228 | 41.00 | Float Test | 1.000 |
| 229 | 68.50 | Storage Stability of Emulsions | 1.671 |
| 230 | 61.50 | Elastic Recovery of Asphalts (Kentucky Snip Test) | 1.500 |
| 231 | 72.00 | Torsional Recovery | 1.750 |
| 232 | 31.00 | Softening Point | 0.750 |
| 233 | 29.50 | Absolute Viscosity (Polymer Modified Asphalts) | 0.717 |

BITUMINOUS MIXES

| Test Charge # | Rate @ \$41.00 | Test | Hours |
|------------------|-------------------|--|-------|
| 301 | 41.50 | Bitumen, percent by Soxhlet Extraction | 1.017 |
| 302 | 45.50 | Bitumen, percent by Vacuum Extraction | 1.105 |
| 303 | 43.50 | Moisture Determination | 1.062 |
| 304 | 15.00 | Write-up | 0.362 |
| 305 | 64.00 | Asphalt Retention Factor (each sample) | 1.563 |
| 306 | 22.00 | Tensile Strength Ratio (each specimen) | 0.536 |
| 307 | 9.00 | Coarse Sieve of Extracted Aggregate | 0.216 |

CEMENT

| Test Charge # | Rate @ \$41.00 | Test | Hours |
|------------------|-------------------|--|-------|
| 401 | 33.00 | Air Content | 0.800 |
| 402 | 65.50 | Compressive Strength (each set of three cubes) | 1.592 |
| 403 | 14.00 | Fineness - Specific Surface | 0.347 |
| 404 | 36.00 | Normal Consistency | 0.880 |
| 405 | 49.00 | Soundness - Autoclave Expansion | 1.200 |
| 406 | 33.00 | Time of Set | 0.800 |
| 407 | 28.00 | Write-up and Prepare | 0.682 |
| 408 | 163.50 | Mortar Strength-Compressive Strength (2" x 4" Cylinder) | 3.988 |
| 409 | 14.50 | Organic Impurities (Colorimetric) | 0.350 |
| 410 | 129.00 | Soundness - Sodium Sulfate Method | 3.150 |
| 411 | 31.00 | Specific Gravity | 0.750 |
| 412 | 31.00 | Fineness - 325 Sieve | 0.750 |

ASPHALTIC CONCRETE MIX DESIGNS

| Test Charge # | Rate @ \$41.00 | Test | Hours |
|------------------|-------------------|-----------------------------|-------|
| 501 | 61.50 | Crush Sample | 1.500 |
| 502 | 28.50 | Composite Grading | 0.690 |
| 503 | 19.00 | Sample Preparation & Mixing | 0.458 |
| 504 | 17.50 | Hveem Compaction | 0.421 |
| 505 | 12.00 | Stability (Hveem) | 0.294 |

ASPHALTIC CONCRETE MIX DESIGNS
(Continued)

| Test Charge # | Rate @ \$41.00 | Test | Hours |
|------------------|-------------------|---|-------|
| 506 | 4.00 | Cohesion | 0.100 |
| 507 | 6.00 | Bulk Density (each specimen) | 0.145 |
| 508 | 4.00 | Voids Analysis | 0.101 |
| 509 | 69.00 | Maximum Density - Rice Method | 1.685 |
| 510 | 33.50 | CKE Values (coarse or fine) | 0.814 |
| 511 | 20.50 | IMC (compacting & breaking each specimen) | 0.500 |
| 512 | 17.50 | Write-up | 0.431 |
| 513 | 184.50 | Slurry Seal Design | 4.500 |
| 514 | 16.50 | Modulus of Resilience | 0.400 |
| 515 | 12.00 | Marshall Compaction (each specimen) | 0.291 |
| 516 | 1.00 | Marshall Stability & Flow (each specimen) | 0.021 |
| 517 | 10.50 | Sawing Core | 0.250 |
| 518 | 261.50 | A.C.F.C. Design | 6.383 |

CHEMISTRY

| Test Charge # | Rate @ \$41.00 | Test | Hours |
|------------------|-------------------|--|--------|
| | | Air Entraining Agents | |
| 601 | 13.50 | Total Solids | 0.325 |
| 602 | 20.00 | Vinsol Resin | 0.487 |
| 603 | 51.00 | I.R. Scan | 1.246 |
| | | Bituminous Coated Galvanized Shapes | |
| 604 | 44.00 | Adherence of Coating | 1.068 |
| 605 | 87.50 | Heat Stability | 2.137 |
| 606 | 44.00 | Moisture Resistance | 1.068 |
| | | Cement and Fly Ash | |
| 607 | 53.50 | Total Alkali ($\text{Na}_2\text{O} + \text{K}_2\text{O}$) | 1.300 |
| 608 | 80.00 | Quantitative Cl Test | 1.950 |
| 609 | 346.50 | Complete Analysis (K, Na, Al, Fe, Ca, Mg, Si, SO_3 , Insoluble Residue, Loss on Ignition) | 8.450 |
| | | Concrete (Chemical Analysis) | |
| 610 | 1126.00 | Cement Content of Hardened Portland Cement Concrete | 27.462 |
| 611 | 40.00 | Chloride Content of Hardened Concrete | 0.975 |

CHEMISTRY
(Continued)

| Test Charge # | Rate @ \$41.00 | Test | Hours |
|------------------|-------------------|--|-------|
| | | Curing Compounds | |
| 612 | 44.50 | Percent Non-Volatiles | 1.082 |
| 613 | 73.00 | Pigment - percent | 1.781 |
| 614 | 49.00 | Total Solids | 1.196 |
| 615 | 51.50 | Reflectivity | 1.262 |
| 616A | 51.00 | I.R. Scan | 1.246 |
| | | Gypsum | |
| 617A | 40.00 | Loss on Ignition | 0.975 |
| 618A | 106.50 | A.A. Analysis of Ca, Mg | 2.600 |
| 619A | 80.00 | SO ₄ - Gravimetric Analysis | 1.950 |
| | | Lime and Quicklime | |
| 620A | 106.50 | A.A. Analysis of Ca, Mg | 2.600 |
| 621A | 40.00 | Loss on Ignition | 0.975 |
| 622A | 13.50 | Sieve Test | 0.325 |
| | | Paint | |
| 623A | 6.50 | Wt./gal. | 0.162 |
| 624A | 51.00 | IR Scan | 1.246 |
| 625A | 13.50 | Viscosity | 0.325 |
| 626A | 20.00 | Set to Touch | 0.487 |
| 627A | 13.50 | Dry Hard | 0.325 |
| 628A | 6.50 | No Pickup Time | 0.162 |
| 629A | 53.50 | Total Solids (by weight) | 1.300 |
| 630A | 44.50 | Total Solids (by volume) | 1.083 |
| 631A | 13.50 | Hot Water Resistance | 0.325 |
| 632A | 13.50 | Cold Water Resistance | 0.325 |
| 633 | 53.50 | Retained on a 325 Mesh Screen | 1.300 |
| 634 | 82.00 | Chemical Analysis of Pigment | 1.998 |
| 635A | 73.00 | Pigment - percent | 1.781 |
| 636A | 20.50 | Dry Opacity | 0.500 |
| 637A | 20.50 | Yellowness Index | 0.500 |
| 638A | 20.50 | Reflectance | 0.500 |
| | | Water Reducing Agents | |
| 639A | 40.00 | Quantitative Cl Test | 0.975 |
| 640A | 51.00 | IR Scan | 1.246 |
| 641A | 13.50 | Total Solids | 0.325 |

CHEMISTRY
(Continued)

| Test Charge # | Rate @ \$41.00 | Test | Hours |
|---------------|----------------|---|-------|
| | | Prismatic Reflector | |
| 642A | 31.00 | Vacuum Test | 0.758 |
| 643A | 26.50 | Specific Brightness | 0.650 |
| | | Water | |
| 644A | 15.50 | Total Dissolved Solids | 0.381 |
| 645A | 13.50 | pH | 0.325 |
| 646A | 40.00 | Quantitative Cl Test | 0.975 |
| | | A.A. Analysis for: | |
| 647A | 106.50 | Cl | 2.600 |
| 648A | 106.50 | SO ₄ | 2.600 |
| 649A | 80.00 | Ca | 1.950 |
| 650A | 80.00 | Mg | 1.950 |
| 651A | 80.00 | Na | 1.950 |
| 652A | 80.00 | K | 1.950 |
| 653A | 80.00 | Fe | 1.950 |
| 654A | 80.00 | Percent Carbonates in Aggregate | 1.950 |
| 655A | 37.50 | Bridge Pad (Durometer Hardness, Number of Plies, etc.) | 0.918 |
| 656A | 29.00 | Cellular Bridge Deck Seal (Compression Set and Cold Flex) | 0.713 |
| 657A | 29.00 | Expansion Joint Filler (Compression & Recovery) | 0.713 |
| 658A | 51.00 | IR Scan - Spectrum Analysis | 1.246 |
| 659A | 24.50 | Roofing Paper - Plies & Weight 1 Roll | 0.598 |
| 660A | 80.00 | Sulfur (Soil Conditioner) - Solubility in CS ₂ | 1.950 |
| 661A | 160.00 | Porcelain Sign Panels - Boiling Citric Acid Test | 3.900 |
| 662A | 9.00 | Sign Panel - Paint Thickness & Color | 0.216 |
| 663A | 31.00 | Reflective Sheeting-Trichromatic Coefficients | 0.758 |
| 664A | 23.00 | Water Stop - Durometer Hardness, etc. | 0.557 |
| 665A | 15.00 | Write-up | 0.365 |
| 666A | 12.00 | PVC Electrical Conduit - Resistance to Crushing | 0.297 |
| 667A | 72.00 | Volatile Organic Compounds | 1.750 |
| 668A | 40.00 | Asphaltenes in Petroleum Resin | 0.975 |
| 669A | 184.50 | Chemical Separation of Asphalts (Rostler Analysis) | 4.496 |
| 670A | 184.50 | Saturates | 4.496 |
| 671A | 10.50 | Dimensional Test and Write-up | 0.250 |
| 672 | 61.50 | Chloride in Soils (Potentiometric) | 1.500 |
| 673 | 61.50 | Sulfate in Soils (Turbidimetric) | 1.500 |

SOILS AND AGGREGATE

| Test Charge # | Rate @ \$41.00 | Test | Hours |
|---------------|----------------|--|-------|
| 701 | 41.00 | Abrasion Test | 1.001 |
| 702 | 192.50 | Cement Treated Base Design (charge for each change of percent cement and/or change of aggregate) | 4.697 |
| 703 | 10.50 | Coarse Sieve Test | 0.259 |
| 704 | 10.50 | Composite Grading or Average Grading | 0.251 |
| 705 | 43.00 | Crush Sample (set up and run through crusher) | 1.050 |
| 706 | 57.50 | Expansive Pressure of Soil | 1.400 |
| 707 | 28.50 | Fine Sieve/Elutriation Test | 0.700 |
| 708 | 48.50 | Fractured Aggregate Particles Determination | 1.180 |
| 709 | 157.50 | Maximum Density (Proctor) | 3.846 |
| 710 | 115.00 | Permeability Test for Soil | 2.800 |
| 711 | 23.00 | Plasticity Index Test | 0.555 |
| 712 | 14.50 | Pulverize Soil Sample | 0.350 |
| 713 | 290.00 | "R" Value Test | 7.077 |
| 714 | 57.00 | Resistivity and pH | 1.385 |
| 715 | 14.50 | Sand Equivalent Test | 0.350 |
| 716 | 38.50 | Shear Strength of Soil (Direct Shear) | 0.933 |
| 717 | 308.50 | Soil Consolidation Test | 7.525 |
| 718 | 31.00 | Soil Hydrometer Analysis | 0.758 |
| 719 | 14.50 | Soil - Moisture Content | 0.350 |
| 720 | 55.00 | Soil - Swell Percent | 1.341 |
| 721 | 14.50 | pH & Soluble Salts in Soil | 0.350 |
| 722 | 39.50 | Washed P.I. Test | 0.969 |
| 723 | 12.00 | Write-up | 0.298 |
| 724 | 28.50 | Flakiness Index Test | 0.700 |
| 725 | 23.50 | Coarse Specific Gravity and Absorption | 0.575 |
| 726 | 88.50 | Fine Specific Gravity and Absorption | 2.156 |
| 727 | 41.00 | Unconfined Compression | 1.000 |
| 728 | 61.50 | Triaxial Shear | 1.500 |
| 729 | 20.50 | Dry Unit Weight | 0.500 |

: 12

STRUCTURAL MATERIALS

| Test Charge # | Rate @ \$41.00 | Test | Hours |
|---------------|----------------|---|-------|
| | | Concrete Blocks, Bricks, Sewer Bricks, Manhole Bricks | |
| 801 | 43.00 | Absorption Test | 1.050 |
| 802 | 57.50 | Measure, Cap and Break | 1.400 |

STRUCTURAL MATERIALS
(Continued)

| Test Charge # | Rate @ \$41.00 | Test | Hours |
|---------------|----------------|--|--------|
| | | Concrete and Ceramic Pipe | |
| 803 | 21.50 | Absorption Test | 0.525 |
| 804 | 57.00 | Inspect, Compress, Stamp | 1.385 |
| | | Concrete Cores | |
| 805 | 14.00 | Saw, Cap and Break | 0.344 |
| 806 | 28.50 | Measure Only | 0.700 |
| | | Bolts & Washers | |
| 807 | 14.50 | Compressive Washers | 0.350 |
| 808 | 10.50 | Measurement (high strength bolts and washers) | 0.250 |
| 809 | 20.50 | Tensile Strength (high strength bolts) | 0.500 |
| 810 | 11.00 | Rockwell Hardness | 0.274 |
| | | Grout Testing | |
| 811 | 27.50 | Non-shrink Grout Expansion | 0.667 |
| 812 | 20.50 | Bond Strength (Slant Shear) | 0.500 |
| 813 | 14.50 | Concrete Cylinders (Dry, Cap, Break) | 0.350 |
| 814 | 26.50 | Pre-Stress Concrete Cable Strand | 0.641 |
| 815 | 28.50 | Reinforcing Steel | 0.700 |
| 816 | 21.00 | Reinforcing Wire Mesh (Cut, Measure, Break) | 0.516 |
| 817 | 21.00 | Strain Cable for Wire Fencing | 0.516 |
| 818 | 43.00 | Swiss Hammer Impact Test on Concrete | 1.050 |
| 819 | 14.50 | Write-up | 0.350 |
| 820 | 187.50 | Concrete Mix Design (Weigh, Mix, Fabricate, Calculate) | 4.575 |
| 821 | 43.00 | PVC Water Pipe (Measure, Cap, Break, Compress) | 1.050 |
| 822 | 459.00 | Time of Set - Concrete Admixture | 11.200 |
| 823 | 229.50 | Epoxy Testing (complete) | 5.600 |
| 824 | 21.00 | Tensile Test for Filter Fabric | 0.516 |
| 825 | 18.50 | Barbed Wire - Spelter, Gauge and Barb Spacing | 0.453 |
| 826 | 18.50 | Chain Link Fence Fabric - Spelter and Gauge | 0.453 |
| 827 | 18.50 | Spelter on Galvanized Articles | 0.453 |
| 828 | 75.50 | Curing Compound - Water Loss Kg/m ² | 1.841 |
| 829 | 7.00 | Fence Post (wt./ft.) | 0.167 |
| 830 | 173.00 | Glass Beads | 4.225 |
| 831 | 125.00 | Pourable Joint Seal (Pot-Life, Non Volatiles, and Penetration) | 3.049 |